Revised Appendix B

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DTLs and RBTLs - Chronology

- February 18, 2005 Draft
- August 2005 Changes approved by Workgroup on the April 28, 2005 meeting.
- August 24, 2005 Changes based on the August 23, 2005 Workgroup meeting.
- September 13, 2005 Summary of all suggested changes to DTLs and RBTLs posted.
- January 2006 Changes as the result of all comments
- May 2006 Final changes

The most current version dated May 2006 is posted on http://www.dnr.mo.gov/env/hwp/mrbca/workgroup.htm.

Changes from January 2006 to May 2006

- Inclusion of petroleum-related chemicals
- Elimination of dermal contact with soil for volatile chemicals
- Rearrangement of chemicals
- Changes in soil-water partition coefficients (K_d) for metals

Changes were made to all the chemicals.

Changes in Soil-Water Partition Coefficient

- Soil-water partition coefficients (K_d) for metals are pH-dependent.
- Higher the K_d value, more of the chemical sorbs to soil and less is available for transport.
- For Mercury,

	Feb. 2005	<u> May 2006</u>
$K_d(L/kg)$	0.04	52
RBTL (mg/kg)*	0.00783	2.19

* RBTL for subsurface soil by resident and soil type 1